

Docket No. 2540-1010

ABSTRACT OF THE DISCLOSURE

A ball screw actuator for aircraft control surfaces includes a lead screw, a motor to set the screw in rotation about its longitudinal axis and a primary body connected to a control surface and engaged on the control screw via a plurality of balls movable on the thread of the screw. A secondary body is connected to the primary body and has an auxiliary portion provided with an engagement surface facing the thread of the lead screw at a predetermined distance; the engagement surface is shaped to engage on the thread of the lead screw. The actuator also includes a device for uncoupling the secondary body from the auxiliary portion in the rotation motion about the longitudinal axis.